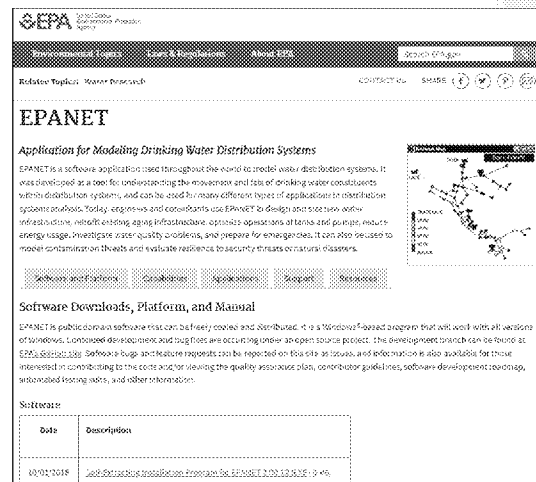




## EPANET Software

- Simulates hydraulics & water quality within water distribution network
- Developed in 1993 by Lew Rossman
- GUI and Programmer's Toolkit versions
- Last official release was 2.00.12 in 2008
- More than 50,000 downloads per year
- Components utilized for multiple commercial software packages



The screenshot shows the EPA website for EPANET. At the top is the EPA logo and the text "U.S. Environmental Protection Agency". Below this is a navigation bar with links: "Environmental Topics", "Program & Policy", "About EPA", and "Contact Us". The main heading is "EPANET" with the subtitle "Application for Modeling Drinking Water Distribution Systems". A paragraph describes EPANET as a software application used worldwide to model water distribution systems. To the right is a small diagram of a water distribution network. Below the text are buttons for "Software and Tools", "Downloads", "Links", "Support", and "Feedback". A section titled "Software Downloads, Platform, and Manual" contains a paragraph about the software's open-source nature and a table with software versions.

Date	Description
2008.08.01	2008 Software Distribution Program Set: EPANET 2.00.12 & EPR 4.0



## Future of EPANET

- Community Development & Involvement
  - Development community at Open Water Analytics (<http://wateranalytics.org/>)
- Open Source Development
  - <https://github.com/USEPA/Water-Distribution-Network-Model>
- Quality Control and Testing
  - Currently undergoing beta testing of V2.2
- Final V2.2 will be posted to EPA's website by late 2019: (<https://www.epa.gov/water-research/epanet>)



- Developed as a collaboration between EPA and the open source community of volunteers
- New features:
  - Pressure-dependent demands
  - More robust convergence criteria
  - A more efficient sparse matrix ordering method and therefore faster solution time for single period hydraulic analysis
  - Improved numerical handling of near-zero flows
  - Allowing tanks to overflow when full
  - Improved water quality mass balance enforcement and mass balance reporting
  - A more comprehensive set of API functions that allow thread-safe running of the engines and dynamic building and modification of the network model
  - A new testing framework including unit and regression tests to ensure software quality control
- Numerous code improvements, bug fixes, and updated GUI
- New EPANET Toolkit functions



## Beta Testing EPANET V2.2

- **Beta Test includes:**
  - EPANET hydraulic and water quality engines
  - Graphical User Interface (GUI)
  - Integrated Help File contained within the GUI
  - Updated online User's Manual
- **EPA is requesting feedback:**
  - Your experience with the open source development hubs.
  - Your experience with installing and running EPANET
  - Your experience with testing the new features
  - Any other problems, comments, or recommendations for EPA to best move forward with an official release of EPANET 2.2
- **If you are interested in learning more contact:**
  - Regan Murray ([murray.regan@epa.gov](mailto:murray.regan@epa.gov)) or Robert Janke ([Janke.robert@epa.gov](mailto:Janke.robert@epa.gov))

